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NOTICE OF ALLOWANCE AND FEE(S) DUE

47973

7590

02/01/2010

WORKMAN NYDEGGER/MICROSOFT 1000 EAGLE GATE TOWER 60 EAST SOUTH TEMPLE SALT LAKE CITY, UT 84111

EXAMINER				
SYED, FARHAN M				
ART UNIT	PAPER NUMBER			
2165				

DATE MAILED: 02/01/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,533	02/05/2004	Dan Teodosiu	13768.783.7	5407

TITLE OF INVENTION: SYSTEM AND METHOD FOR TRANSPARENT STORAGE REORGANIZATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/03/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 47973 7590 02/01/2010 Certificate of Mailing or Transmission WORKMAN NYDEGGER/MICROSOFT I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 1000 EAGLE GATE TOWER 60 EAST SOUTH TEMPLE SALT LAKE CITY, UT 84111 (Depositor's name (Signature (Date APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 10/772.533 02/05/2004 Dan Teodosiu 13768.783.7 5407 TITLE OF INVENTION: SYSTEM AND METHOD FOR TRANSPARENT STORAGE REORGANIZATION APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 05/03/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS SYED, FARHAN M 707-205000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: ☐ Issue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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WORKMAN NY	DEGGER/MICROS	SYED, FA	RHAN M		
1000 EAGLE GAT			ART UNIT	PAPER NUMBER	
60 EAST SOUTH SALT LAKE CITY			2165 DATE MAILED: 02/01/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 565 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 565 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/772,533	TEODOSIU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	FARHAN M. SYED	2165	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i) or other appropriate comm IGHTS. This application is	n this application. If not included unication will be mailed in due course	
1. This communication is responsive to <u>11/17/09</u> .			
2. The allowed claim(s) is/are <u>23-26,28 and 30-36</u> .			
3.	e been received. e been received in Application of this communication to file MENT of this application. nitted. Note the attached EX es reason(s) why the oath of the process of the control of the cont	on No d in this national stage application fro e a reply complying with the requirement AMINER'S AMENDMENT or NOTICE	ents
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftspers 		w / PTO 948) attached	
(a) ☐ including changes required by the Notice of Dranspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date		w (FTO-946) attached	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in 16. ☐ DEPOSIT OF and/or INFORMATION about the deposit	s Amendment / Comment of 1.84(c)) should be written on the header according to 37 C	he drawings in the front (not the back) o FR 1.121(d).	
attached Examiner's comment regarding REQUIREMENT Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. <mark>□</mark> Notice of Ir	oLOGICAL MATERIAL. Informal Patent Application Summary (PTO-413),	
	Paper No.	/Mail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. ⊠ Examiner's	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's 9. □ Other	Statement of Reasons for Allowance	
	/Neveen Abel		
		tent Examiner, Art Unit 2165	

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DETAILED ACTION

1. Applicant's amendments and arguments filed on 17 November 2009 have been fully considered and they are deemed to be persuasive.

EXAMINER'S AMENDMENT

- 2. Authorization for Examiner's Amendment to the amendment filed 17 November 2009 was given by Mr. Tom Bonacci (Reg. No. 63,368) in a telephone interview on January 28, 2010.
- 3. An examiner's amendment to the amendment filed 17 November 2009 appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. The application has been amended as follows:
- 23. (Currently Amended) A method in a client-server computer network for reorganizing storage and accessing the reorganized storage such that clients in the network may access stored data, after the data has been moved to a new location, by using the original path name of the original location of the data, the method comprising:

relocating a legacy share from a legacy server to a new server;

copying contents of the legacy share to the new server, the contents comprising all data of the legacy share stored upon the legacy server;

copying permissions of the legacy share to the new server;

creating an alias for the legacy server name such that the unchanged legacy server name resolves to a network address of a consolidation server;

creating a legacy server root associated with the legacy server name on the consolidation server;

creating a link on the legacy server root corresponding to the legacy share on the new server;

resolving the legacy server name that is aliased to the consolidation server;

receiving at the consolidation server a request from a client for the legacy share,
the request specifying the original, unchanged legacy share path name;

logging information about the request, the information comprising a name of the legacy share and a name of a client making the request;

tracking active usage of the legacy share through the logged information;

based upon the logged information and the tracked active usage, determining when the legacy share should be retired based upon infrequent usage;

the consolidation server rewriting the legacy share path name, wherein rewriting the legacy share path comprises of invoking a path rewriter to rewrite the legacy share path, by prepending the legacy share path with the consolidation server name;

the consolidation server traversing the rewritten legacy share path name and resolving links within the rewritten legacy share path name, wherein resolving any links

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in the rewritten legacy share path comprises invoking a path redirector to resolve any links in the rewritten legacy share path; and

the consolidation server responding to the client request with the share path name of the storage location of the relocated legacy share.

27. (Cancelled).

29. (Cancelled).

36. (Currently Amended) A computer readable storage medium having encoded thereon computer-executable instructions for performing executing a the method of claim 23 for reorganizing storage and accessing the reorganized storage such that clients in a network may access stored data, after the data has been moved to a new location, by using the original path name of the original location of the data, the method comprising:

relocating a legacy share from a legacy server to a new server;

copying contents of the legacy share to the new server, the contents comprising all data of the legacy share stored upon the legacy server;

copying permissions of the legacy share to the new server;

creating an alias for the legacy server name such that the unchanged legacy

server name resolves to a network address of a consolidation server;

creating a legacy server root associated with the legacy server name on the consolidation server;

creating a link on the legacy server root corresponding to the legacy share on the new server;

resolving the legacy server name that is aliased to the consolidation server;

receiving at the consolidation server a request from a client for the legacy share,

the request specifying the original, unchanged legacy share path name;

logging information about the request, the information comprising a name of the legacy share and a name of a client making the request;

tracking active usage of the legacy share through the logged information;

based upon the logged information and the tracked active usage, determining when the legacy share should be retired based upon infrequent usage;

the consolidation server rewriting the legacy share path name, wherein rewriting the legacy share path comprises of invoking a path rewriter to rewrite the legacy share path, by prepending the legacy share path with the consolidation server name;

the consolidation server traversing the rewritten legacy share path name and resolving links within the rewritten legacy share path name, wherein resolving any links in the rewritten legacy share path comprises invoking a path redirector to resolve any links in the rewritten legacy share path; and

the consolidation server responding to the client request with the share path name of the storage location of the relocated legacy share.

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Allowable Subject Matter

5. Claims 23-26, 28, and 30-36 and renumbered 1-12 are allowed over the prior art of record.

Reasons For Allowance

6. The following is an examiner's statement of reasons for allowance:

Regarding independent claims 23 and 36, Applicants' particular method and associated systems of logging information about the request, the information comprising a name of the legacy share and a name of a client making the request; tracking active usage of the legacy share through the logged information; based upon the logged information and the tracked active usage, determining when the legacy share should be retired based upon infrequent usage; the consolidation server rewriting the legacy share path name, wherein rewriting the legacy share path comprises of invoking a path rewriter to rewrite the legacy share path, by prepending the legacy share path with the consolidation server name; the consolidation server traversing the rewritten legacy share path name, wherein resolving links within the rewritten legacy share path name, wherein resolving any links in the rewritten legacy share path comprises invoking a path redirector to resolve any links in the rewritten legacy share path, was not disclosed by, would not have been obvious over, nor would have been fairly suggested by the prior art of record.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892 that includes additional prior art of record describing the general state of the art in which the invention is directed to. The additional prior art of record does not disclose by, make obvious over, or fairly suggest the Applicants' particular method and associated systems of logging information about the request, the information comprising a name of the legacy share and a name of a client making the request; tracking active usage of the legacy share through the logged information; based upon the logged information and the tracked active usage, determining when the legacy share should be retired based upon infrequent usage; the consolidation server rewriting the legacy share path name, wherein rewriting the legacy share path comprises of invoking a path rewriter to rewrite the legacy share path, by prepending the legacy share path with the consolidation server name; the consolidation server traversing the rewritten legacy share path name and resolving links within the rewritten legacy share path name, wherein resolving any links in the rewritten legacy share path comprises invoking a path redirector.

The dependent claims, being further limiting to the independent claims, definite and enabled by the specification are also allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Farhan M. Syed whose telephone number is 571-272-

7191. The examiner can normally be reached on 8:30AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Neveen Abel-Jalil can be reached on 571-272-4074. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

/F. M. S./

Examiner, Art Unit 2165

/Neveen Abel-Jalil/

Supervisory Patent Examiner, Art Unit 2165